

Moplen EP445L

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP445L is a heterophasic copolymer suitable for the production of beverage closures using both compression and injection moulding technologies. The resin is nucleated and additivated with both slip and antistatic whilst exhibiting a good stiffness and impact strength. Additional applications for this resin include housewares and medium-sized containers. For regulatory information please refer to Moplen EP445L Product Stewardship Bulletin (PSB)

General Information			
Additive	Antistatic		
	Nucleating Agent		
	Slip		
Features	Antistatic		
	Block Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Nucleated		
	Slip		
Uses	Caps		
	Closures		
	Containers		
	Household Goods		
	Sporting Goods		
	Toys		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	64.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2

Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	7.0	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.5	kJ/m ²	
0°C	3.5	kJ/m ²	
23°C	5.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	80.0	°C	ISO 306/B50

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